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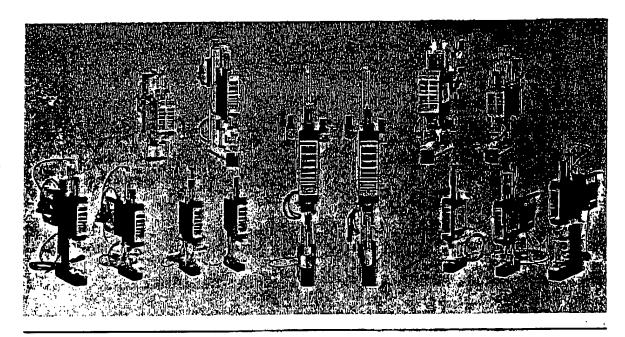
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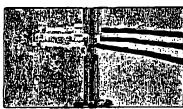


THIN-LINE TM WELD HEADS HIGH PERFORMANCE, DURABILITY & LONG LIFE 80 SERIES, 180 SERIES, 90 SERIES



Thin-Line Features

- Adjustable Force-Firing
- Low Inertia Designs
- Air Actuation Option
- Adjustable Tare Spring
- Single Air Regulator (Serles 80)
- Up to 1.5 Inch (38mm) Stroke
- Up and Oown Stops
- Rugged Design
- EZ-AIR® Technology



Weld stranded capper wire securaly to relay leads ar electrical terminats

Benefits

- Permits high quality, precision small parts welding since welding force is independent of electrode stroke.
- Improves weld consistency, reduces matal expulsion, and improves the appearance of the weld.
- Integrates easily into automated work stations and provides rates exceeding one weld per second at maximum weld force.
- Allows use of custom electrodes without sacrificing performance.
- Simplifies adjustment and increases speed of air actuated heads.
- · Allows welding inside deep cavities.
- Increases production rates by allowing user to optimize upper electrode' motion.
- Improves productivity, minimizes repair costs and ensures long life.
- Improves consistency and simplifies sat-up.



Weld electrical terminals to solid wire loads



Priamatic NICA Barrary Assombly



PRECISION PERFORMANCE THROUGH INTELLIGENT DESIGN

The Thin-Line Ranges

Unitek Peco Thin-Line Weld Heads consist of three families of full-featured products for precision metals joining:

80 Series - 20 lb. (89N) 40 lb. (17BN) 180 Series - 100 lb (445 N) 90 Series - 150 lb (567N)

All are precision, low inertia, force-fired designs, with a narrow vertical profile. They

are ideal for both production line and bench applications and can operate at speeds greater than 3600 welds per hour.

Durable High Quality Design

Rugged construction, linear ball bearing bushings and an over-sized, anti-rotation bearing system provide perfect linear travel of the upper electrode arm. This system minimizes the potential for electrode wiping action during the weld, even at maximum force settings. Based on actual test data, *bearing life exceeds 25 million operations* when used according to the specifications.

High Speed Capability

A top-mounted air actuation system, with a regulator and dual flow controls, ensures repeatable, reliable, high-speed operation in automated applications. Threaded holes on the back of the heads make them easy to mount, without their post or base, in automated work stations. EZ-AIR provides unsurpassed repeatability and ease of set-up.

Precision Control

Thin-Line Weld Heads add consistency and control to complex welding applications.

Their *low inertia designs* ensure the fast dynamic response required for the electrodes to follow the minute expansion and contraction of the weld joint as it heats and cools. A *differential motion force-firing* system initiates the welding control at the precise moment when the pre-set electrode force is applied to the workpleces.

Electrodes and Accessories

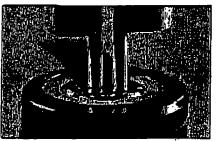
A complete line of accessories and electrodes are available. Refer to the accessories data sheet 991-160. Optics are available for all heads. All heads are supplied with welding cables, firing switch cables, mounting hardware, and one set of electrodes.

ELECTRODE CONFIGURATIONS MATCH SPECIFIC APPLICATION NEEDS

Opposed Weld

Opposed Configuration

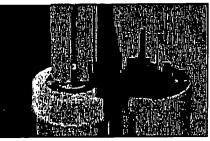
Top and bottom electrodes are used to hold the parts and provide the current path. An opposed weld is preferred over other configurations because it is easier to set-up and control the current path. It should be used whenever possible.



Series Weld

Series Configuration

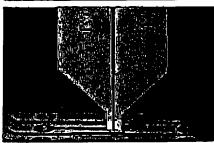
Using two top electrodes, a series weld can be used when there is no access to the bottom part. Both electrodes contact the top part and current is passed through the top part to the bottom part. Two weld spots are produced, one under each electrode. Independent force control allows for separate adjustment of each electrode force and is used to balance the heat between the two weld spots.



Step Weld

Step Configuration

Thin-Line weld heads designed for series welding can also be set up in a step configuration. Two top electrodes are used, but one electrode contacts the top part and the other electrode contacts the bottom part. A single weld is produced at the part to part interface. Independent force control allows the electrode force on the bottom part to be set much higher than the force on the top part.



Parallel Gap Weld

Parallel Gap Configuration

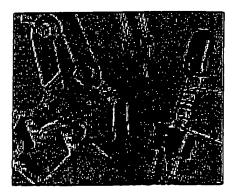
Parallel gap welding results in a single weld spot under the gap between the electrodes. It is used to weld very small parts. Two styles of parallel gap electrodes are available: Unitips® which are permanently bonded together with an insulating spacer and fixed gap; and Unibond Electrodes® which allow for adjustment of the gap.

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HIGH QUALITY, FULL FEATURED

The 80 Series (below), 180 Series, and 90 Series are subjected to environmental life testing designed to guarantee specifications and performance.

Air actuated heads are supplied with an air pressure regulator, two flow controls which are used to independently control the up and down velocity, and a 24-volt AC solenoid (115 volts is an available option). The air actuation system includes a linear spring which ensures proper operation at low forces. EZ-AIR provides high repeatability and eliminates overforce. The air systems can be moved to other locations when the heads are incorporated in work stations or automated systems. The heads can be supplied with an optional Hall Effect Limit Switch Kit, which will detect when the head is in the up or down position. This feature can prevent damage when automated machine tooling is indexed.



80 SERIES DESIGN FEATURES ADJUSTABLE DOWNSTOP CAN BE UPSPEED ADJUSTMENT_ USED TO PROTECT TOOLING AIR CYLINDER WITH SINGLE REGULATOR, GAUGE, AND TWO OPTIONAL HALL EFFECT 'HEAD FLOW CONTROLS INSTALLED ON UP" SENSOR AIR ACTUATED MODELS ADJUSTABLE UPSTOP REDUCES STROKE AND TRAVEL TIME TERLON IMPREGNATED SLEEVE BEARINGS INCREASE LIFE AND WELD FORCE CAN BE SET TO THIGGER POWER SOURCE AT REDUCE FRICTION FORCES FROM .25 lbs. TO 40 lbs. DEPENDING UPON MODEL DOWNSPEED ADJUSTMENT OVER - SIZED CAM ADJUSTS lioaty FORCE TRIGGERING SENSITIVITY 6 TWO TAPPED MOUNTING HOLES ON SPINE SIMPLIFY INSTALLATION ON AUTO-SMOOTH, LOW FRICTION, MATED MACHINES ٥ PLAY - FREE MOTION IS Ø (\Box) INSURED BY LINEAR BALL BEARINGS, WITH BEARING PULLADO AND RETURN Ω SPRING USED ON FOOT CLEARANCE ADJUSTMENTS 6 6 WHICH GUIDE A HARDENED ACTUATED MODELS LOW INERTIA STEEL SHAFT đ 0 OVER - SIZED ANTI - ROTATION BEARING SYSTEM RESOLVES 6 9 FLEXIBILITY IS PROVIDED SIDE LOADS AND MINIMIZES BY OPPOSED, SERIES, AND WIPING ACTION ۵ đ PARALLEL GAP HOLDERS 0 0 ADJUSTABLE TARE SPRING ON 20 16 MODELS CAN COMPENSATE FOR WEIGHT OF ELECTRODE A VARIETY OF 1/8 OR Q 1/4 Inch DIAMETER ELECTRODES, UNIBOND, ARM ASSEMBLY 0 OR UNITIP ELECTRODES CAN BE USED FLEXURE DESIGN PROVIDES 1.25, or 1.5 Inch STROKE LONG LIFE AND REDUCES DRAG WHICH IMPROVES DEPENDING ON MODEL WELD QUALITY 0 0 0 ٥ OFFSET, IN - LINE, OR TABLE SELECT FROM THREE MOUNTING ത ELECTRODE ARRANGEMENTS L-BRACKET, OR I-COLUMN ത CAN BE USED

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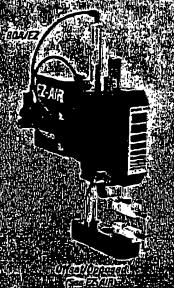
BO SERIES THIN-LINE WELD HEADS

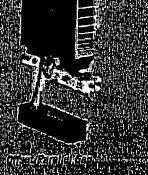
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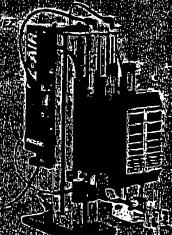
80 SERIES THIN-LINE WELD HEADS - FORCE RANGE 0.25 TO 20 LBS (1.1 TO 89 N)

	UNIT OF MEASURE	0.051		86F2	86A2	87F1	87A	88F	88A
Standard Model		80F1	AOB	8074		0/1		<u>807</u>	
EZ-AIR Model (Complete Weld He	2(ba		80A/EZ		86A/EZ		87A/EZ		88A/EZ
Actuation		Manual	Air	Manual	Air	Manual	Air	Manual	Air
Weld Force	Maximum (bs (N)	20 (89)	20 (89)	20 (89)	20 (89)	20 (89)	20 (89)	20 (89)	20 (89)
	Minimum Ibs (N)	.25 (1.1)	.5 (2.2)	.25 (1.1)	.5 (2.2)	.25 (1.1)	.5 (2.2)	.5 (2.2)	.5 (2.2)
Maximum Rating	KVA (Watt-Seconds)	2 (250)	2 (250)	1 (125)	1 (125)	2 (125)	2 (125)	5 (250)	5 (250)
Maximum Electrode Stroke	Inch (mm)	1 (25)	1 (25)	1 (25)	1 (25)	1 (25)	1 (25)	1 (25)	1 (25)
Electrode Diameter	inch (mm)	.125 (3.2)	.125 (3.2)	Unibond	Unibond	Thermodes	Thermodes	0,245 (6.2)	0.245 (6.2)
				Unitips		Unillps			
Electrode Configuration	•	beaoqqO	Opposed	Parallel Gap	Parallel Gap	Parallel Gap	N/A	Series	Series
Electrode Holder Type	·	Offset	Offeet	Offeat	Offset	Offset	Offset	Offset	Offset
Maximum Throat Size (M x D)	Inch	1,94 x 6.0	1.94 x 6.0	3.38 x 5.19	3.38 x 5.19	2,55 x 5.25	2.55 x 5.25	6,2 x 6.25	6.2 x 6.25
· · · ·	(៣៣)	(49 x 152)	(49 x 152)	(86 x 132)	(88 x 132)	(65 x 133)	(65 x 133)	(157 x 159)	(157 x 159)
Maximum Gap between Electrodes	inch			0.040	0.040	0.040	0.040	1.75	1.75
	(៣៣)		-	(1.0)	(1.0)	(1.0)	(1.0)	(44.5)	(44.5)
Electrode Series		ES-0400	ES-0400	EU or UT	EU	174 or UT	174	ES-0800E	ES-0800E
Weld Cable Size & Length	AWG	#2	#2	#2	#2	#2	#2	#2/0	#2/0
	inch (cm)	11 (28)	11 (28)	11 (28)	11 (28)	11 (28)	11 (28)	11 (28)	11 (28)
Foot Pedal Model		CP	-	ÇP	-	CP	-	MSP	-
Footswitch Model		-	FSAC, FS1L, FS2L	_	FSAC, FS1L FS2L	-	FSAC, FS1L FS2L		FSAC, FS1L FS2L
Air Salenoid Voltage	VAC	-	24 or 115	-	24 or 115	+	24 or 115	-	24 or 115
Vir Pressure for Maximum Force	psig (bar)	-	85 (4.5)	-	85 (4.5)	-	65 (4.5)	-	65 (4.5)
Air Cylinder Inside Diameter	Inch (mm)	-	.75 (19)		.75 (19)	-	.75 (19)		.75 (19)
Cycle Rate: @ Minimum Force	Full Strakes/sec	-	1	-	1		1	-	1
@> 20% of Rated Force	Full Strokes/sec	-	2.5	-	2.5	-	2.5	-	2.5
Maximum Dimensions Height - Inch (mm)		13.7 (348)	16.3 (414)	16 (406)	16.5 (419)	16 (406)	18.5 (419)	18.7 (424)	19.3 (490)
including stand & Air XII)	Depth - Inch (mm)	7.6 (193)	9.0 (229)	7.6 (193)	9.1 (231)	7.0 (178)	9.1 (231)	19.5 (343)	13.5 (343)
······································	Width - Inch (mm)	1.7 (43)	4.6 (117)	2.2 (56)	4.7 (119)	2.2 (58)	4.7 (119)	4 (102)	10.5 (267)
Veight (before packing)	Lbs (kg)	5 (2.3)	7 (3.2)	5.5 (2.5)	7 (3.2)	5.5 (2.5)	7 (3.2)	14 (6.4)	17 (7.7)

(1) Model 80FLF and 87FLF have a force range of 0.25 - 10 lbs (1 T - 44.5N) (2) Model 86FRE and 86ARE use 1/8 inch (3.2mm) diameter. Series E0.0400.35° Utiset Electroce Holders and Electrodes. (3) See page 7 for EZ-AIR specifications. (4) 178M, 17F, 17M, 17For 1/5R







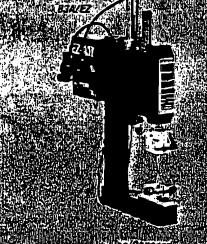
80 SERIES THIN-LINE WELD HEADS

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80 SERIES THIN-LINE WELD HEADS - FORCE RANGE 4 TO 40 LBS (18 TO 178 N)

FEATURE	UNIT OF MEASURE							
Slandard Model		82A1	83F	AE8	84F	84A	89F	89A
EZ-AIR Model (Complete Weld He	ad) 2			83A/EZ		84A/EZ		89A/EZ
Actuation		Alr	Manual	Air	Manual	Air	Manual	Alr
Weld Force	Maximum Ibs (N)	40 (178)	40 (178)	40 (178)	40 (178)	40 (178)	40 (178)	40 (178)
	Minimum Ibs (N)	6 (27)	4 (18)	6 (27)	4 (18)	6 (27)	4 (18)	6 (27)
Maximum Rating	KVA (Watt-Seconda)	5 (250)	5 (250)	5 (250)	5 (250)	5 (250)	5 (250)	5 (250)
Maximum Electrode Stroke	inch (mm)	1 (25)	1 (25)	1 (25)	1 (25)	1 (25)	1 (25)	1 (25)
Electrode Diameter	Inch (mm)	.25 (6.4)/ .125 (3.2)	.25 (6.4)/ .125 (3.2)	.25 (6.4) .125 (3.2)	.25 (8.4)	.2\$ (6.4)	0.245 (6.2)	0.245 (6.2)
Electrode Configuration		Opposed	Opposed	Opposed	Opposed	Opposed	Series	Serles
Electrode Halder Type		In-Line	In-Line	In-Line	Offset	Offset	Offset	Offset
Maximum Throat Size (H x D)	Inch	N/A	1.8 x 3.1	1.8 x 4.8	3.3 x 6.1	3.3 x 7.8	8.7 x5.6	8.7 x 8.2
	(mm)		(46 x 79)	(46 x 122)	(84 x 155)	(84 x 198)	(221 x 142)	(221 x 208)
Maximum Gap between Electrodes	Inch		-	-		-	1.75	1.75
	(mm)	. .	-	-	-	-	(44.5)	(44.5)
Electrode Series		ES-0800/	ES-0800/	ES-0800/	ES-0800	ES-0800	ES-0800E	ES-0800E
		ES-0400	ES-0400	ES-0400				
Neld Cable Size & Length	AWG	#2/0	#2/0	#2/0	#2/0	\$2/0	#2/0	#2/0
	inch (cm)	11 (28)	11 (28)	11 (28)	11 (28)	11 (28)	11 (28)	11 (28)
ioot Pedal Model			MSP	-	MSP		MSP	-
colswitch Model	=	FSAC, FS1L, FS2L	-	FSAC, FS1L FS2L	-	FSAC, FS1L FS2L	-	FSAC, FS1L FS2L
ir Solenoid Voltage	VÁC	24 or 115	_	24 or 115		24 or 115	-	24 or 115
ir Pressure for Maximum Force	psig (bar)	55 (3.8)	-	55 (3.8)	_	55 (3.8)		55 (3.8)
ir Cylinder Inside Diameter	Inch (mm)	1.0825 (27)	-	1.0625 (27)	-	1.0825 (27)	-	1.0625 (27)
ycle Rate: @ Minimum Force	Full Strokes/sec	1	-	1	-	1		1
@> 20% of Rated Force	Full strakes/sec	2.5	-	2.5	-	2.5	-	2.5
laximum Olmonolons	Height - Inch (mm)	16.2 (411)	17.4 (442)	20.1 (511)	16.7 (424)	19.3 (490)	21.9 (556)	24.5 (622)
ncluding sland & Air Kil)	Depth - inch (mm)	17.7 (450)	7.9 (201)	9.6 (244)	10.0 (254)	11.9 (302)	14.6 (371)	16.0 (406)
	Width - Inch (mm)	4.6 (117)	2.6 (66)	4.6 (117)	2.6 (66)	4.8 (117)	4.9 (124)	10.5 (267)
Veight (before packing)	Lbs (kg)	5 (2,3)	7 (3.2)	9 (4.1)	8 (3.6)	10 (4.5)	20 (9.1)	23 (10.4)

(1) Model 92A is the same as Model 83A with the mounting stand, lower electrode holder and lower electrode omitted (2) See page 7 for EZ-AIR specifications.







MARKA 180 & 90 SERIES THIN-LINE WELD HEADS MANAGEMENT AND A STREET AND A STREET AND A STREET AND A STREET AND A

180 SERIES MID-FORCE WELD HEADS

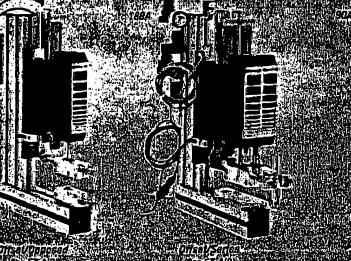
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FORCE RANGE 5 TO 100 LBS (22 TO 445 N)

90 SERIES HIGH-FORCE WELD HEADS FORCE RANGE 7 TO 150 LBS (31 TO 667 N)

FEATURE	UNIT OF MEASURE					<u> </u>	
Slandard Model		180F	180A	182A	<u>188A</u>	90A	TOADE
EZ-AIR Model (Complete Weld Hei	ad) I		180A/EZ	<u> </u>	188A/8Z		
Actuation		Manual	Air	Air_	Air	Air	Alr
Weld Force	Maximum Ibs (N)	100 (445)	100 (445)	100 (445)	100 (445)	150 (667)	100 (445)
	Minimum Ibs (N)	5 (22)	5 (22)	5 (22)	5 (22)	7 (31)	7 (31)
Maximum Rating	KVA (Watt-Seconds)	20 (875)	20 (875)	20 (875)	20 (875)	30 (1000)	20 (875)
Maximum Electrode Stroke	Inch (mm)	1.25 (32)	1.25 (32)	1,25 (32)	1.25 (32)	1.5 (38)	1.5 (38)
Electrode Diameter	Inch (mm)	.25 (6.4)	.25 (6.4)	.25 (6.4)	.245 (6.22)	.25 (6.4)	.25 (6.4)
Electrode Configuration		Opposed	Opposed	Opposed	Series	Opposed	Opposed
Electrode Halder Type		Offaet	Offset	In-Line	Offset	In-Line	Offset
Maximum Throat Size (H x D)	inch	6,1 x 8,5	6.1 x 11.1	2.8 × 6.3	8.0 x 11.5	2.125 x 6.2	5.75 x 11
	(mm)	(154.9 x 215.9)	(154.9 x 281.9)	(71.1 x 180.0)	(152.4 x 292.1)	(54.0 x 157)	(146.1 x 279.4)
Maximum Gap between Electrodes	Inch			-	3.0		-
•	(mm)	-	-	· -	(76.2)		-
Electrode Series		ES-0800	ES-0800	ES-0800	ES-0800E	ES-0800	ES-0800
Weld Cable Size & Length	AWG	#2/0	#2/0	#2/0	#2/0	#2/0	#2/0
•	inch (cm)	16 (41)	16 (41)	18 (41)	16 (41)	16 (41)	16 (41)
Foot Pedal Model		MSP	-	-	-	-	-
Faatswitch Model	· · · · · · · · · · · · · · · · · · ·	-	FSAC, FS1L	FSAC, FS1L	FSAC, FS1L	FSAC, FS1L	FSAC, FSIL
			FS2L	FS2L	FS2L	FS2L	FS2L
Air Solenoid Voltage	VAC		24 or 115	24 or 115	24 or 115	24 or 115	24 or 115
Air Pressure for Maximum Force	psig (bar)		60 (4.4)	60 (4.4)	60 (4.4)	50 (4.4)	60 (4.4)
Air Cylinder Inside Dlameter	Inch (mm)	1.5 (38.1)	1.5 (38.1)	1.5 (38.1)	1.5 (38.1)	1.0625 (27)	1.0625 (27)
Cycle Rate: @ Minimum Force	Full Strokes/sec		1	1	1	1	1
©> 20% of Rated Force	Full Strokes/sec		2	2	2	1.5	1.5
Maximum Dimensions	Height - Inch (mm)	24 (810)	24.75 (629)	25 (635)	24.9 (632)	31.1 (790)	31.1 (790)
Including stand & Air Kit)	Depth - Inch (mm)	14.9 (378)	16.5 (419)	13.4 (340)	18.1 (460)	13 (330)	16 (406)
	Width - Inch (mm)	3.1 (79)	6.6 (168)	6.4 (163)	6.6 (168)	6.6 (168)	6.6 (168)
Weight (before packing)	Lbs (kg)	18.5 (8.4)	21.5 (9.8)	21.5 (9.8)	36.5 (16.6)	37.5 (17)	38.5 (17.5)

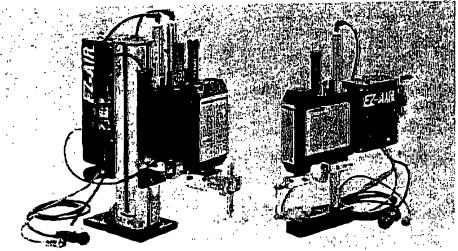
(1) See page Zfor EZ AIR specifications











The EZ-AIR weld force control system simplifies the set-up process to a single adjustment and helps prevent weld over-force by closing off the input air when the actual weld force reaches the programmed weld force lavel, delivering accurate force control which is repeatable across multiple weld heads without complex setup or operator training.

- Firing force is important because it controls contact resistances and, therefore, heat generation at the electrode-to-part and part-to-part interface.
- Superior force control = process stability and higher production yield with reduced maintenance time.

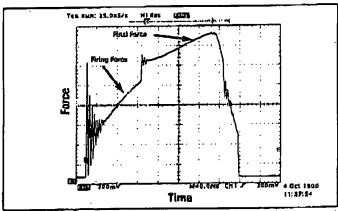
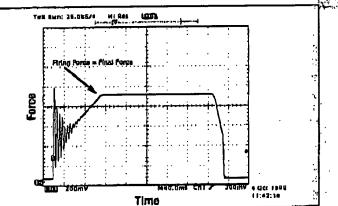
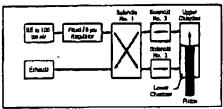


Figure 1, above, shows an incorrect balance of firing force to sir pressure set by an operator after cleaning the electrodes, on a traditional weld head, resulting in poor set-up and force control.

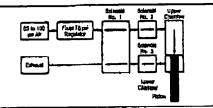


EZ-AIR insures correct set-up and good force control as seen in Figure 2, above. The Unitek Peco EZ-AIR requires no balancing of air pressure as the air pressure is constant once the firing force is reached.

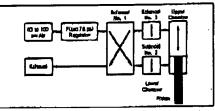
The following series of simplified diagrams explain how the EZ-AIR weld force control system works through independent control of upper and lower air chambers.



Electrode up position — air pressure in the lower chamber keeps the piston in the up position. Weste air exhausts from the upper chember.



Electrode moves down - air prozeure in the upper chamber torces the piston down. Waste air exhausts from the lower chamber.



Electrade reaches weld farce - both solanold valves close within 4ms and air pressure is trapped in both the upper and lower chambers. Weld force remains constant since the air cylinder pisten connet move. Compression earing provides instantaneous follow-up.



EZ-AIA force control technology is available with Unitak Pace Thin-Une weld heads as ariginal equipment and as a retrofit for previously purchased Thin-Line air sctuated weld heads. Sae the Ordering Guide for more information.

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THIN-LINE WELD HEAD ORDERING GUIDE

MODEL	•		DESCRIPTION				
WELD HEADS 80 Series, 180	ieries, 90 Se	ies	Weld head, menual of air actuation, specifications. For air actuation, add solenoid. For EZ-AIR model, add /EZ. E	/24 for 24 VAC	l, please refer to Weld Head Table, pages 4, 5 and 6, for model numbers and or /115 for 115 VAC salenold. Example: 80A/24, Model 80A with 24 VAC Model 80A with E2-AIR.		
FOUT ACTUATO HEAD OPTIONS & ACCESSORIE	FS1L FS2L FSAC CP MSP Mad	Air or EZ-AIR Air or EZ-AIR Air (115 VAC) Manual Manual U Dyne Option Option Accessery	<u>Description</u> Footswitch, single level (for all pneumatic weld heads). Footswitch, two level (for all pneumatic weld heads).				
VIEWING ACCE	SSOR/ES			PROCESS SI	T-UP TOOLS		
OMA NIKON BLFOI BLFOI/230	Optic moun Optic, steres Fiber optic (geoseneck, i mounting ad Aber optic (geoseneck, i	zoom, NIKON, 10X Iluminator system ilurcated light pipe spter for optic mou luminator system	230V-50/60Hz. Self-supporting s, focusing lenses for		Electrodo force gago, 20 lb., scale 20 lb. 4 0.2 lb. Electrode force gage, 100 lb., scale 100 lb. 4 1 lb. Electrode force gage, 200 lb., scale 200 lb. 4 2 lb. Electrode force gage, 10 kg., scale 200 lb. 4 2 lb. Electrode force gage, 100 kg., scale 100 kg. x 0.1 kg. Electrode force gage, 100 kg., scale 100 kg. x 1 kg. With or without serial number. EDUS ACCESSORIES Unitig edapter, allows use of Unitip electrodes in model 86. Wark Positioner, 3-inch diameter. Height adjustable from 1-7/16 to 2 inches (models 86, 87, 88, 89).		

EZ-AIR SPECIFICATIONS SPECIFICATION DESCRIPTION Force Adjustment Range Models: 80A/EZ, 88A/EZ, 88A/EZ 1 to 20 lbs (4.4 to 89N) Force Adjustment Range Models: 83A/EZ, 84A/EZ, 89A/EZ 4 to 40 lbs (17.8 to 178N) 5 to 100 lbs (22 to 445N) Force Adjustment Range Models: 180A/EZ Valva Oriver Input 24 VAC Input Air Pressure 85 to 130 psi (482 kPa to 898 kPa), unlubricated alr ORDERING GUIDE With a Weld Nead Specify XXA/EZ where XXA is the weld head (80, 83, 84, 86, 89, 89, 180). Example: BOA/EZ for an 80 Thinline Weld Head Specity EZ/SAK for use with a head with a single air cylinder. Specity EZ/DAK for use with a head with dual (two) air cylinders. As a Rebrofit Kit

Your Local Representative

Specifications subject to change without notice.

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